Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PAT98151PCT	FOR FURTHER ACTION See Notil	leation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP99/10242	International filing date (day/month/year) 21 December 1999 (21.12.99)	Priority date (day/month/year) 24 December 1998 (24.12,98)
International Patent Classification (IPC) of B0512 7/02	r national classification and IPC	24 December 1998 (24.12.98)
Applicant	BASE COATINGS AG	
2. This REPORT consists of a total of This report is also accomp been amended and are the (see Rule 70.16 and Section	ramination report has been prepared by this applicant according to Article 36. f sheets, including this cover a same by ANNEXES, i.e., sheets of the descript basis for this report and/or sheets containing response for 607 of the Administrative Instructions under	heet.
9.4.	total of sheets.	·
3. This report contains indications relations for the report of the repo	-	
ly	•	
V Reasoned stateme citations and explo	nt under Article 35(2) with regard to novelty, in anations supporting such statement	iventive step or industrial applicability;
VII Certain defects in	the international application	
VIII Certain observatio	ns on the international application	
Onte of aubmission of the demand	Date of completion of	this report
29 June 2000 (29.06.	003	ember 2000 (28.09.2000)
inme and mailing address of the IPHA/EP	Authorized officer	
acsimile No.	Telephone No.	

Form PCT/IPEA/409 (cover sheet) (January 1994)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP99/10242

I. Basis of the report		
1. This report has been drawn under Article 14 are referred	n on the basis of (Replacement al to in this report as "originally file	hacts which have been furnished to the receiving Office in response to an invitation and are not annexed to the report slace they do not contain amendments.):
	ul application as originally file	
the description	, pages 1-35	, as originally filed,
		, filed with the demand,
	pages	, filed with the letter of
	pages	, filed with the letter of
the claims,	Nos. 1-12	
		, as amended under Article 19,
	Nus.	
	Nos.	
		, filed with the letter of
the drawings,	sheetw/fig	
	sheets/fig	
		······································
	sheets/tig	
2. The amendments have result		
	Pages	
the claims,	Nos.	
the drawings,	sheets/fig	
-		•
3. This report has been e	stablished as if (some of) the as	mendments had not been made, since they have been considered he Supplemental Box (Rulo 70.2(c)).
or government the alger	osare as med, as mulcated in th	те Supplemental Bax (Rule 70.2(c)).
4. Additional observations, if n	есезнагу:	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 99/10242

V .	Reasoned statement under Article 35(2) with regar citations and explanations supporting such statement	rd to novelty, inventive step or industrial applicability; ent
1.	Statement	

Statement			
Novelty (N)	Claims	1-12	YES
	Claims		NO
Inventive step (IS)	Claims	1-12	YES
	Clainis		NO
industrial applicability (IA)	Clairns	1-12	YES
	Claims		NO

2. Citations and explanations

This report makes reference to the following international search report ditations:

01: DE-A1-44 28 641,

D2: WO-A-96/05235.

Novelty and inventive step (PCT Article 33(2) and (3))

Independent Claims 1, 2, and 3 each pertain to a multilayer system, a method for producing said multilayer system as well as a reactive system. An essential feature is the use of mesomorphic polyelectrolyte complexes in combination with a further layer or a coating substance.

Mesomorphic polyelectrolyte complexes, used to produce films, foils, fibers, moulded components, and coatings, are already described in the prior art. Therein it concerns mesomorphic complexes composed of both anionic and cationic polyelectrolytes and cationic and/or anionic surfactants. However, these systems do not exhibit sufficient resistance with respect to water, organic and inorganic acids and bases, and organic solvents. Furthermore, no multilayer coatings, moulded parts, or

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laminates are described.

Therefore, the problem addressed by the present invention is to provide new multilayer systems consisting of at least one layer of mesomorphic polyelectrolyte complexes. Additionally, the aim is to obtain between the individual layers good cohesive characteristics, a high degree of hardness, and an increased resistance to water, acids, bases, and other solvents.

Document DI likewise pertains to mesomorphic polyelectrolyte complexes and their use, yet it does not clearly indicate the multilayer system specified in the present application.

In this connection, D2 only generally refers to the possibility of producing films or layers (see second paragraph on page 7, for example).

Therefore, the present Claims 1, 2, and 3 fulfil PCT requirements.

Dependent claims

Dependent Claims 4-11 and Claim 12 represent preferred embodiments of the independent claims and therefore likewise fulfil PCT requirements.

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